New Claims

17. (New) An apparatus that is self-adjusting and applies a predetermined work load to a user regardless of how fast the exercise apparatus is operated for use in the physiological stress testing method of Claim 7 comprising:

(a) a frame with a seat, with pedals, and movable handles;

(b) for said seat, said seat having an adjustable back, which may rotate so that said seat may be varied from upright to horizontal;

(c) a resistance apparatus that moves in response to motion of said pedal and said handles;

(d) means for applying a resistance to said resistance apparatus;

(e) means for adjusting said means for applying a resistance;

(f) means for controlling said means for adjusting;

whereby a constant work load may be applied through said exercise equipment regardless of the speed at which a user moves said pedals and/or said handles.

18. (New) An apparatus that is self-adjusting and applies a predetermined work load to a user regardless of how fast the exercise apparatus is operated of Claim 17 wherein said means for applying a resistance is an electromagnet and said resistance apparatus is constructed of material responsive to magnetic force.

19. (New) An apparatus that is self-adjusting and applies a predetermined work load to a user regardless of how fast the exercise apparatus is operated of Claim 18 wherein said means for adjusting further comprises an adjustable electrical current applied to said electromagnet.

20. (New) An apparatus that is self-adjusting and applies a predetermined work load to a user regardless of how fast the exercise apparatus is operated of Claim 19 wherein said means for controlling further comprises, at least in part, a central control unit which can control said adjustable electrical current so that a predetermined resistance may be applied by said adjustable electrical current to said resistance apparatus.